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DATE MAILED: 06/02/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/839,156	04/23/2001	Il-Kyong Kim	P56377	1590
7590 06/02/2005			EXAMINER	
Robert E. Bushnell Suite 300			ODOM, CURTIS B	
1522 K Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20005			2634	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	•	Арр	lication No.	Applicant(s)	•		
Office Action Summary		09/8	339,156	KIM, IL-KYONG			
		Exar	niner	Art Unit			
			is B. Odom	2634			
The Period for Re	ne MAILING DATE of this commun eply	ication appears o	on the cover sheet w	with the correspondence ac	ldress		
A SHORT THE MAII - Extensions after SIX (f - If the perio - If NO perio - Failure to r Any reply r	ENED STATUTORY PERIOD F LING DATE OF THIS COMMUN of time may be available under the provisions b) MONTHS from the mailing date of this common defor reply specified above is less than thirty (3 d for reply is specified above, the maximum steply within the set or extended period for reply eceived by the Office later than three months ent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In nunication. 0) days, a reply within t atutory period will apply will, by statute, cause t	he statutory minimum of the and will expire SIX (6) MC he application to become a	a reply be timely filed irty (30) days will be considered time DNTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).			
Status							
1)⊠ Res	sponsive to communication(s) file	ed on 23 <i>April 20</i>	01.				
3)⊠ Sin	 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is 						
clos	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition (of Claims						
4a) 5)⊠ Cla 6)□ Cla 7)□ Cla							
Application l	Papers						
10)⊠ The App Rep	specification is objected to by the drawing(s) filed on 23 April 200 licant may not request that any objectement drawing sheet(s) including oath or declaration is objected to	t is/are: a) ☐ acc ction to the drawin the correction is r	g(s) be held in abeya equired if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 C	• •		
Priority unde	er 35 U.S.C. § 119						
12)⊠ Ack a)⊠ A 1.⊠ 2.⊑ 3.⊑	nowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Certified copies of the priority	documents have documents have of the priority do anal Bureau (PC	e been received. e been received in cuments have bee F Rule 17.2(a)).	Application No n received in this National	Stage		
Attachment(s)	References Cited (PTO-892)		4) 🗍 Interview	Summary (PTO-413)			
2) Notice of I	Oraftsperson's Patent Drawing Review (Find Drawing Review) In Disclosure Statement(s) (PTO-1449 or S)/Mail Date		Paper No	o(s)/Mail Date Informal Patent Application (PT	O-152)		

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DETAILED ACTION

Drawings

The drawings are objected to because in Fig. 1, block 30, "Romote Terminal" is 1. suggested to be changed to "Remote Terminal". Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure. Application/Control Number: 09/839,156

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The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- The abstract of the disclosure is objected to because it contains more than 150 words.

 Correction is required. See MPEP § 608.01(b).
- 4. The disclosure is objected to because of the following informalities:
- a. The legal phraseology "said" is suggested to be deleted throughout the specification.
- b. On page 2, section 0040, the phrase "800 (kilobits" is suggested to be changed to "800 kilobits".
- c. On page 5, section 0013, the phrase "I have found that methods" is suggested to be changed to "It has been found that methods".
- d. On page 6, section 0015, the phrase "I note that" is suggested to be changed to "it is noted that".

Appropriate correction is required.

Allowable Subject Matter

5. Claims 1-62 are allowable over prior art because related references do not disclose using two binary, one quaternary modulation/demodulation, assembling a high bit digital subscriber

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line frame including signaling signals for voice services, and signal processing mode information in a user-defined interval of the frame and transmitting the frame, wherein when a voice service is requested, assembling a second frame including signaling signals and transmitting the signaling signals to an exchange.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chaplik et al. (U. S. Patent No. 6, 693, 916) and Frankel et al. (U. S. Patent No. 6, 075, 784) both disclose transmitting voice and data over digital subscriber lines.
- 6. This application is in condition for allowance except for the following formal matters:

 See objections above.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Curtis B. Odom whose telephone number is 571-272-3046. The examiner can normally be reached on Monday- Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Curtis Odom May 27, 2005

> STEPHEN CHIN SUPERVISORY PATENT EXAMINE!

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